

INTERNATIONAL SEARCH REPORT

International application No.

PCT/AU2004/001726

A. CLASSIFICATION OF SUBJECT MATTER

Int. Cl. ⁷ H01Q 1/36, B21F 45/00, H01R 11/09

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

dwpi (method, conductive, connect, wire, winding, antenna, non linear, curve, sheet, region, portion, removal)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	GB 2288028 A (HALLIBURTON COMPANY) 4 October 1995 Page 4, lines 17-29	1-20
X	US 6181296 B1 (KULISAN et al.) 30 January 2001 Column 1, line 59 – column 2, line 35, column 4, lines 59-67	1-20
X	GB 2356935 A (SCHLUMBERGER HOLDINGS LIMITED) 6 June 2001 The abstract, page 3, lines 19-25	1-20
P,X	US 2004/0164923 A1 (AISENBREY) 26 August 2004 The whole document	1-20

☒ Further documents are listed in the continuation of Box C☒ See patent family annex

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"T"

later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"E" earlier application or patent but published on or after the international filing date

"X"

document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"Y"

document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"O" document referring to an oral disclosure, use, exhibition or other means

"&"

document member of the same patent family

"P" document published prior to the international filing date but later than the priority date claimed

Date of the actual completion of the international search
4 March 2005

Date of mailing of the international search report

19 MAR 2005

Name and mailing address of the ISA/AU

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	GB 2166005 A (SANYO ELECTRIC CO LTD et al.) 23 April 1986 The whole document	
X	US 1948875 A (BEILING) 27 February 1934 The whole document	21-42
X	US 3166104 A (FOLEY, JR. et al.) 19 January 1965 Column 2, lines 7-38	21-42
X	US 4200971 A (SHIMIZU et al.) 6 May 1980 The abstract	21-42
X	US 6446678 B1 (BECHERUCCI et al.) 10 September 2002 The abstract	21-42
X	US 6308744 B1 (BECHERUCCI et al.) 30 October 2001 The abstract	21-42
X	Derwent Abstract Accession No. 87-121639/17, Class V06, SU 1256-122 A (FRUNZE TY AZHLEKTRO) 7 September 1986 The abstract	21-42
X	Derwent Abstract Accession No. 93-376433/47, Class V06, SU 1775803 A1 (KHARK AVIATION INST) 13 November 1992 The abstract	21-42
A	US 6133072 A (FIELSTAD) 17 October 2000 The whole document	

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Supplemental Box

(To be used when the space in any of Boxes I to VIII is not sufficient)

Continuation of Box No:

Box III continued

The three inventions are:

1. Claims 1-20 are directed to a method of forming and connecting an antenna to a feedthrough member.
2. Claims 21-42 are directed to a method of forming a non-linear path of a conducting wire extending between a first location and a second location.
3. Claims 43-67 are directed to a method of forming a device comprised of a predetermined pattern of at least two relatively electrically conductive regions.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No.

PCT/AU2004/001726

This Annex lists the known "A" publication level patent family members relating to the patent documents cited in the above-mentioned international search report. The Australian Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

Patent Document Cited in Search Report			Patent Family Member		
GB	2288028	NO	951225	US	5661402
US	6181296				
GB	2356935	AU	66529/00	AU	91350/01
		BR	0105757	CA	2321242
		GB	2374936	ID	28576
		NO	20006070	NO	20016222
		US	6380744	US	6557794
		US	6630830	US	2001004212
		US	2002008521	US	2003155923
US	20040164923				
GB	2166005	CN	85108084	DE	3536908
		JP	61097807	JP	61097808
		JP	61105809	JP	61105810
		JP	61105812	JP	61124118
		NL	8502843	US	4860433
US	1948875				
US	3166104				
US	4200971	DE	2821485	JP	53141402
US	6446678	CA	2311558	EP	1061634
		US	2002023687	US	6308744
US	6133072	US	6541867		
Due to data integration issues this family listing may not include 10 digit Australian applications filed since May 2001.					
END OF ANNEX					

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Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a)

Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

See extra sheet

1. ☒ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☒ The additional search fees were accompanied by the applicant's protest.
☐ No protest accompanied the payment of additional search fees.